WHAT IS CLAIMED IS: 1 1. A mobile sta

2

3

5

6

7 8 9 W NOTE 12 13 1 C C

1. A mobile station capable of communicating with a plurality of base stations in a wireless network and receiving at least one of a software program, a software correction patch and provisioning data from a server associated with said wireless network, said mobile station comprising:

an RF transceiver capable of receiving wireless messages from said plurality of base stations and converting said received wireless messages to a plurality of Internet protocol (IP) packets;

an encryption controller capable of converting said IP packets from an encrypted format to a decrypted format; and

a data burst message protocol controller capable of converting said decrypted IP packets to at least one data burst message.

PATENT

2. The mobile station as set forth in Claim 1 wherein said encryption controller is capable of encrypting and decrypting IP packets according to at least one of:

IP Sec tunneling protocol;

Secure Shell (SSH) tunneling protocol;

Secure Sockets Layer/Transport Layer Security (SSL/TLS);

and

7

8

1

2

3

point-to-point tunneling protocol (PPTP).

- 3. The mobile station as set forth in Claim 1 wherein each of said IP packets comprise an IP layer and an IP packet payload.
- 4. The mobile station as set forth in Claim 4 wherein said

 IP packet payload comprises a transmission control protocol (TCP)

 layer.
- 5. The mobile station as set forth in Claim 4 wherein said IP packet payload comprises an over-the-air service provisioning payload associated with said at least one data burst message.

1

2

3

1

2

- 6. The mobile station as set forth in Claim 1 wherein each of said IP packets comprises an IP layer, a transmission control protocol (TCP) layer and a IP packet payload.
 - 7. The mobile station as set forth in Claim 7 wherein said
 IP packet payload comprises an over-the-air service provisioning
 payload associated with said at least one data burst message.
 - 8. The mobile station as set forth in Claim 1 wherein said data burst message protocol controller is capable of converting said decrypted IP packets to said at least one data burst message according to at least one of: 1) an IS-683-A protocol; 2) a short messaging service (SMS) protocol; and 3) extensible mark-up language (XML) protocol.

PATENT

9. A system for secure over-the-air administration of a wireless mobile station via a base station in a wireless network, said system capable of transmitting to said wireless mobile station at least one of a software program, a software correction patch and provisioning data from a server associated with said wireless network, said system comprising:

a data burst message protocol controller capable of receiving and converting said at least one of a software program, a software correction patch and provisioning data into at least one data burst message;

an encryption controller capable of converting said at least one data burst message into a plurality of encrypted IP packets; and

an RF transceiver capable of converting said encrypted IP packets into at least one wireless message and transmitting said at least one wireless message to said wireless mobile station.

]] 1,7

3🖫

PATENT

- 10. The system as set forth in Claim 9 wherein said 1 2 encryption controller is capable of encrypting and decrypting IP 3 packets according to at least one of: IP Sec tunneling protocol; 4 Secure Shell (SSH) tunneling protocol; 5 6 Secure Sockets Layer/Transport Layer Security (SSL/TLS); 7 and point-to-point tunneling protocol (PPTP). 8 4
 - 11. The system as set forth in Claim 9 wherein each of said
 IP packets comprises an IP layer and a IP packet payload.
 - 12. The system as set forth in Claim 11 wherein said IP packet payload comprises a transmission control protocol (TCP) layer.
- 1 13. The system as set forth in Claim 12 wherein said IP
 2 packet payload comprises an over-the-air service provisioning
 3 payload associated with said at least one data burst message.

1

2

- 1 14. The system as set forth in Claim 9 wherein each of said 2 IP packets comprises an IP layer, a transmission control protocol 3 (TCP) layer and a IP packet payload.
 - 15. The system as set forth in Claim 14 wherein the IP packet payload comprises an over-the-air service provisioning payload associated with said at least one data burst message.
 - 16. The system as set forth in Claim 9 wherein said data burst message protocol controller is capable of converting said at least one of a software program, a software correction patch and provisioning data to said at least one data burst message according to at least one of: 1) an IS-683-A protocol; 2) a short messaging service (SMS) protocol; and 3) extensible mark-up language (XML) protocol.

1

2

3

4

5

6

7

8

J

11

12

13

PATENT

17	. Fo	r us	se	a wire	eless	netv	vork,	a	meth	od	for	se	cure	ly
transmi	tting	to	a	wirele	ess mo	bile	stat	ion	at	lea	st	one	of	a
software program, a software correction patch and provisioning data														
from a	serve	er a	sso	ciated	with	the	wirel	ess	net	work	t, t	he	meth	od
comprising the steps of:														

receiving and converting the at least one of a software program, a software correction patch and provisioning data into at least one data burst message;

converting the at least one data burst message into a plurality of encrypted IP packets;

converting the encrypted IP packets into at least one wireless message; and

transmitting the at least one wireless message to the wireless mobile station.

- 1 18. The method as set forth in Claim 17 including the further 2 steps of encrypting and decrypting IP packets according to at least 3 one of:
- IP Sec tunneling protocol;
- Secure Shell (SSH) tunneling protocol;
- Secure Sockets Layer/Transport Layer Security (SSL/TLS);
- 7 and
- point-to-point tunneling protocol (PPTP).
- 19. The method as set forth in Claim 17 wherein each of the IP packets comprises an IP layer and a IP packet payload.
- 20. The method as set forth in Claim 19 wherein the IP packet payload comprises a transmission control protocol (TCP) layer.
- 21. The method as set forth in Claim 20 wherein the IP packet payload comprises an over-the-air service provisioning payload associated with the at least one data burst message.

9

1

2

- 1 22. The method as set forth in Claim 17 wherein each of the 2 IP packets comprises an IP layer, a transmission control protocol 3 (TCP) layer and a IP packet payload.
 - 23. The method as set forth in Claim 22 wherein the IP packet payload comprises an over-the-air service provisioning payload associated with the at least one data burst message.
 - 24. The method as set forth in Claim 17 wherein the steps of receiving and converting the at least one of a software program, a software correction patch and provisioning data into at least one data burst message comprises the sub-sep of converting the at least one of a software program, a software correction patch and provisioning data into at least one data burst message according to at least one of: 1) an IS-683-A protocol; 2) a short messaging service (SMS) protocol; and 3) extensible mark-up language (XML) protocol.